

## ABSTRACT OF THE DISCLOSURE

A light-emitting diode which emits light uniformly emitted all around is provided. The present invention comprises a light emitting diode (LED) die, a transparent envelop body and a connection pin, which is characterized in that the envelop body is a cylindrical  
5 body and a top surface of the envelop body being indented to form a semi-spherical recess or, a conic concave or a polygonal concave with a tip angle between  $100^{\circ}$  to  $140^{\circ}$ . Since the present invention uses a structure which the top of the envelop body is disposed as a inward concave shape with the tip angle between  $100^{\circ}$  to  $140^{\circ}$  or semi-spherical recess shape, it skillfully makes use of the optical spreading characteristic of the inward concave  
10 body. Which makes light beam which is emitted by the light emitting diode die emit uniformly all around the envelop body via refraction of a plurality of the sides of the inward concave body. At the same time, in order to further enhance its decorative, said envelop body is set to different colour coloured body. Therefore, it may emit light all around, and which has a simple structure, easy to manufacture, low manufacturing cost,  
15 good decorative effect. Thus, it can be applied to in the field of all sorts of new type lamps.